





## **PAGER** Version 5

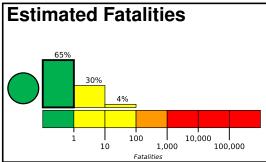
10,000

1,000

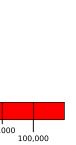
100,000

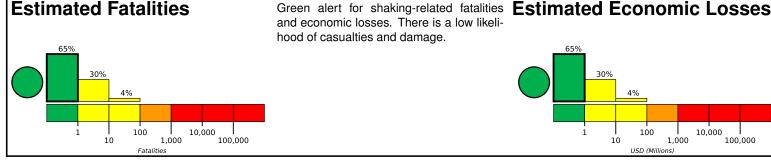
Created: 1 day, 0 hours after earthquake

# **M 5.7, 103 km NW of Vallenar, Chile** Origin Time: 2020-09-01 10:31:50 UTC (Tue 05:31:50 local) Location: 27.8931° S 71.4787° W Depth: 12.1 km



and economic losses. There is a low likelihood of casualties and damage.



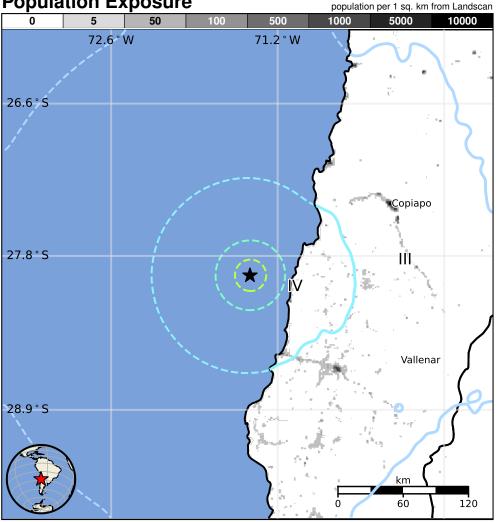


**Estimated Population Exposed to Earthquake Shaking** 

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	281k	18k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

<sup>\*</sup>Estimated exposure only includes population within the map area.

### Population Exposure



#### PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

#### **Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

#### **Historical Earthquakes**

		-		
Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1983-10-04	178	7.6	VII(30k)	5
1975-03-13	224	6.9	VIII(266k)	2
1997-10-15	334	7.1	VIII(3k)	7

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

#### Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Vallenar	<1k
II	Diego de Almagro	18k
Ш	Vallenar	45k
Ш	Copiapo	129k

bold cities appear on map.

(k = x1000)